

## ZÜND Price List Accessories & Consumables July 2009

Please note: Zünd blades are sold in package quantities but priced per blade.  
Orders need to be placed by ordering the number of blades you wish  
and making sure they are in correct multiples of the package quantity.  
( e.g. 3910303 comes in packages of 10, so 20x blades @ \$5.79ea. = \$115.80 )

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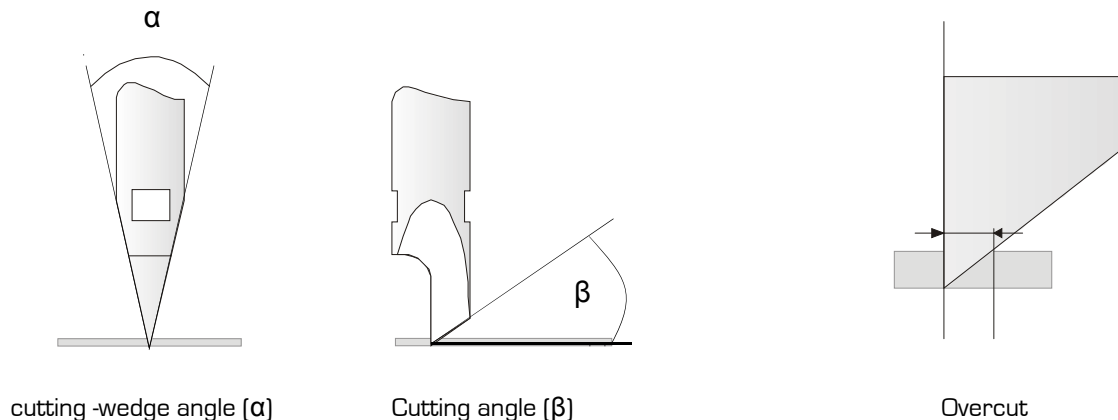
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Prices apply from July 1, 2009, ex works, excl. packaging.  
Prices may change without prior notice.

## 1. Knives

### 1.1 Plotter knives

Our standard plotter knives are made of high quality hard metal (HM). This guarantees high durability and perfect cutting results. In the following chapters there will always be information provided on the knife angles. The two most important angles are called the cutting-wedge angle ( $\alpha$ ) and the cutting angle ( $\beta$ ).



#### Selecting the appropriate knife:

Generally, the lower (flatter or smaller) the cutting angle ( $\beta$ ) is, the higher the cut quality. This is particularly true for thin materials. A smaller cutting angle, however, increases the overcut. The overcut is the distance between the center of the knife and the point of intersection of the cutting edge with the surface of the material.

The smaller the cutting-wedge angle ( $\alpha$ ), the “narrower“ the knife tip is. A narrow knife is specially suited to cut thick materials as it penetrates the material easier. This means a higher risk of breaking the knife tip, which again may adversely affect its durability.

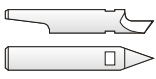
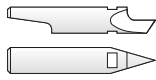

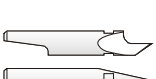

With thick materials (especially with small radius) a small cutting angle (= large overcut) is disadvantageous. Narrow curves and radius distort the contours. The same happens when the knives are set too deep.

Experience shows that double-edged knives are more durable. Through the sword-shaped blade, every corner has an overlap in both directions, in this way the cut foil can easily be lifted out.

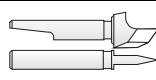
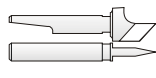
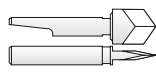
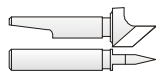
#### **CHECK YOUR PLOTTER KNIVES REGULARLY !**

Original knives reward you with considerably longer durability and perfect cutting quality. Experienced specialists are always available to advise you on the most suitable ZÜND / WILD knife for your special material/application.

### 1.1.1 ZÜND plotter knives for CP, C2, C2-P tool heads

Illustration	Type (Mat)	Angle ( $\alpha/\beta$ )	Description	Part #	Pack. Unit	Price per pcs
	<b>Z1<sup>X</sup></b> (HM)	40/35°	Standard plotter knife suited for cutting all common self-adhesive foils. The blade is relatively wide, separates foil and adhesive very well and makes the knife tip very robust.	<b>3910105</b>	10	23.81
	<b>Z2<sup>X</sup></b> (HM)	30/35°	Slim knife suited for cutting thick self-adhesive foils like daylight reflectors, reflective foils, stencil cardboards and similar materials.	<b>3910110</b>	10	23.81
	<b>Z3<sup>X</sup></b> (HM)	40/35°	Double-edged "sword knife" best suited for cutting masking film. Through the double-edged blade there is an overlap in both directions which is good for small types.	<b>3910115</b>	10	23.81
	<b>Z4<sup>X</sup></b> (HM)	25/55°	Very slim knife suited for cutting thick, soft materials like sandblast protective substrate, cardboards, reflective foils (Diamond Grade) etc. Due to fine tip not suited for very hard materials - not very durable.	<b>3910116</b>	10	23.81
	<b>Z5<sup>X</sup></b> (HM)	20/60°	Very slim knife suited for cutting thick, soft materials like sandblast protective substrate. Due to fine tip not suited for very hard materials - not very durable.	<b>3910117</b>	10	23.81

### 1.1.2 ZÜND and WILD special plotter knives

Illustration	Type (Mat)	Angle ( $\alpha/\beta$ )	Description	Part #	Pack. Unit	Price per pcs
	<b>W5<sup>X</sup></b> (HM)	30/30°	Robust universal knife for cutting thick and tough materials, like cardboard, polyester, reflective foils, tarpaulin material, etc.	<b>3910153</b>	10	59.50
	<b>W6<sup>X</sup></b> (HM)	30/30°	Robust universal knife for cutting thick and tough materials, like cardboard, polyester, reflective foils, tarpaulin material, etc.	<b>3910154</b>	10	57.50
	<b>W7<sup>X</sup></b> (HM)	30/35°	Robust knife for cutting polyester, cardboard, leather, etc.	<b>3910155</b>	10	50.19
	<b>W8<sup>X</sup></b> (HM)	30/30°	Double-edged sword knife for cutting paper, textile, cloth, etc.	<b>3910156</b>	10	50.19
	<b>W9<sup>X</sup></b> (HM)	30/45°	Slim universal knife for cutting thick and tough materials, like polyester foils, reflective foils, etc.	<b>3910157</b>	10	50.19
			Perforation wheel for use in C2 head as well as Vinyl insert 40	<b>3910121</b>	1	298.00

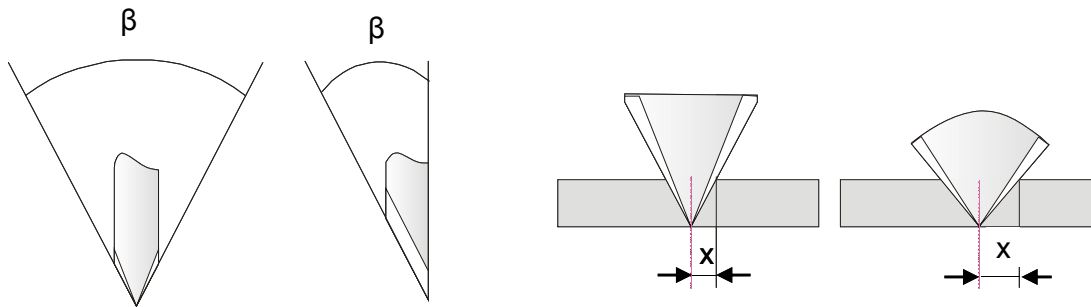
## 1.2 Flat knives

### Selecting the appropriate knife:

Generally, the flatter (larger) the cutting angle is, the better the cutting turns out to be. This is particularly true for thin materials. A smaller cutting angle, however, increases the overcut. The overcut is the distance between the center of the knife and the point of intersection of the cutting edge with the surface of the material.

With thick materials (especially with small radius) a large cutting angle is disadvantageous. As a result of small cutting angles, curves do not look round. The same happens when the knives are set too low.

Experience shows that double-edged knives are more durable due to increased stability. With the sword-shaped blade, every corner has an overcut in both directions. If this overcut is not desired on the face side of the material, then it can be cut from the rear side should the application permit it. Cutting without an overlap is not possible!



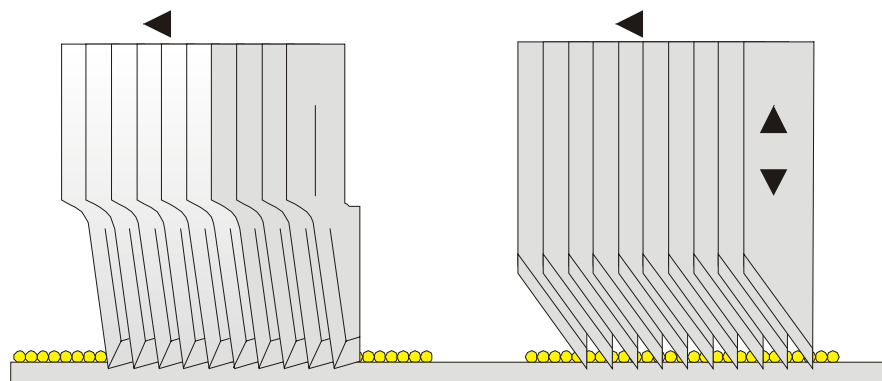
**Illustration: Over cut** Small Cutting angle ( $\beta$ ) causes small over cut ( $x$ ), large cutting angle ( $\beta$ ) causes large overcut ( $x$ )

### Oscillating knives

Selecting the appropriate knife depends on the material to be cut. If the material is fibrous, a flattened knife is recommended. The wide cutting edge will help guarantee that the material is completely cut and no uncut “fibers” remain.

If the rate of feed is too high the oscillation creates a perforated instead of an continuous line.

When using a pointed knife the rate of feed has to be drastically reduced in order to achieve good cutting results.




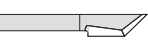


This figures highlight the difference between a flat knife (fig. 1) and a pointed knife (fig. 2). With a pointed knife and constant cutting parameters parts of the material always remain uncut. Clean separation is therefore not possible. The cutting depth with pointed knives would have to be set much lower in order to cut all fibers. As a result, the cutting surfaces are carved up faster and must be replaced earlier.










For thin and soft materials the use of an EOT (Electrical Oscillating Tool) is recommended. For hard or thick materials a POT (Pneumatic Oscillating Tool) is suitable.

## 1.2 Flat knives







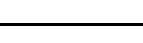



### 1.2.1 ZÜND and WILD flat knives 1.5mm thick

Illustration	Type (Mat)	Angle $\alpha/\beta$	Tool insert	Description	Part #	Pack. Unit	Price per pcs
	<b>Z12<sup>X</sup></b> (HM)	80°	Tang. knife, Knife holder Type 1 (silver)	Same as Z10 but double-sided which gives it 4 usable cutting edges instead of 2.	<b>3910320</b>	1	74.65
	<b>Z13<sup>X</sup></b> (HM)	60°	Tang. knife, Knife holder Type 1 (silver)	Same as Z11 but double-sided which gives it 4 usable cutting edges instead of 2.	<b>3910321</b>	1	74.65
	<b>Z44<sup>X</sup></b> (HM)	60°	Tang. knife, Knife holder Type 1 (silver)	Similar to Z11, but with additional cutting edge for fibrous materials (carpet)	<b>3910340</b>	1	83.40
	<b>Z46<sup>X</sup></b> (HM)	45°	Tang. knife, Knife holder Type 5	Very robust knife with minimized pushing forces but with large over cut, for thick fibrous materials (carpet)	<b>4800073</b>	1	73.75



### 1.2.2 ZÜND and WILD flat knives 0.6mm thick

Illustration	Type (Mat)	Angle $\alpha/\beta$	Tool insert	Description	Part #	Pack. Unit	Price per pcs
	<b>Z16<sup>X</sup></b> (HM)	35°	Tang. knife Knife holder Type 3 (yell.) EOT POT	Carbide knife for cutting thin materials such as polyester foils, leather etc. Usable also for POT and EOT oscillating tools.	<b>3910306</b>	2	49.95
	<b>Z17<sup>X</sup></b> (HM)	25°	Tang. knife Knife holder Type 3 (yell.) EOT POT	Carbide knife for cutting polyester foils, leather etc. Usable also for POT and EOT oscillating tools.	<b>3910307</b>	2	49.95
	<b>Z20</b> (HM)	5/25°	EOT/POT	Corrugated cardboard up to 10 mm, rubber (25 mm long)	<b>3910313</b>	2	55.98
	<b>Z21</b> (HM)	5/25°	EOT/POT	Corrugated paper up to 13 mm, rubber (28 mm long)	<b>3910314</b>	2	55.98
	<b>Z22</b> (HM)	10/25°	EOT/POT	Hard cardboard up to 3 mm, rubber (25 mm long)	<b>3910315</b>	2	55.98
	<b>Z23</b> (HM)		EOT/POT	Carton sandwich panel up to 16mm (33 mm long)	<b>5005560</b>	2	83.40
	<b>Z26<sup>X</sup></b> (HM)	12/25°	EOT-40 POT-40	Fibrous tissue, cloth, textiles (25 mm long)	<b>3910317</b>	2	55.98
	<b>Z28</b> (HM)	4/45°	EOT-40s POT-40	Soft materials up to 23 mm (38 mm long)	<b>3910318</b>	2	72.07
	<b>Z29</b> (HM)	3.5/45°	EOT-40s POT-40	Soft materials up to 28 mm (43 mm long)	<b>3910319</b>	2	99.00


### 1.2.2 ZÜND and WILD flat knives 0.6mm thick (cont.)

Illustration	Type (Mat)	Angle $\alpha/\beta$	Tool insert	Description	Part #	Pack. Unit	Price per pcs
	<b>Z40</b> (HSS)	-	EOT-40 POT-40	Knife made of super high-speed steel for cutting fibrous tissues, textiles	<b>3910322</b>	10	7.08
	<b>Z41</b> (HM)	8/75°	POT-40	Special knife for cutting thick leather and textiles up to 10 mm (with heel cut)	<b>3910323</b>	2	61.78
	<b>Z63</b> (HM)	7/75°	POT-40	Special knife similar to Z41 for soft materials up to 25mm	<b>5002637</b>	2	108.00
	<b>Z42<sup>XJ</sup></b> (HM)	35/75°	EOT-40 POT-40	Special knife for cutting leather and textiles (with heel cut)	<b>3910324</b>	2	55.00
	<b>ZÜND Type 2</b> (HSS)	90/45°	Tang. knife, Knife holder Type 2 (blue) Type 3 (yell.)	Universal knife made of super high-speed steel for soft, thin materials	<b>3910302</b>	10	5.79
	<b>ZÜND Type 3</b> (HSS)	90/36°	Tang. knife, Knife holder Type 2 (blue) Type 3 (yell.)	Universal knife made of super high-speed steel for soft materials	<b>3910303</b>	10	5.79
	<b>ZÜND Type 4</b> (HSS)	36°	Tang. knife Knife holder Type 3 (yell.) EOT,POT	Universal knife made of super high-speed steel for soft, thin materials, like leather	<b>3910304</b>	10	5.79
	<b>ZÜND Type 5</b> (HSS-TiN)	36°	Tang. knife Knife holder Type 3 (yell.) EOT,POT	Universal knife made of super high-speed steel for soft, thin materials, like leather; TiN coated	<b>3910305</b>	10	22.52
	<b>ZÜND Type 6</b> (HSS)	40°	Tang. knife Knife holder Type 3 (yell.) EOT,POT	Universal knife made of super high-speed steel for soft materials	<b>3910310</b>	10	2.57
	<b>WILD Type 11</b> (HSS)	60°	Tang. knife Knife holder Type 3 (yell.) EOT,POT	Universal knife made of super high-speed steel for soft materials, corrugated paper, etc.	<b>1506281</b>	5	3.22






### 1.2.3 ZÜND flat knives 1.5mm thick for POT-40/1.5 (for soft materials up to 50mm)

Illustration	Type (Mat)	Angle $\alpha/\beta$	Tool insert	Description	Part #	Pack. Unit	Price per pcs
	<b>Z64</b> (HSS)	2/30°	POT-40/1.5	Universal knife to cut soft materials (foam) up to 50mm thickness (67mm long)	<b>5002739</b>	1	92.00
	<b>Z66</b> (HSS)		POT-40/1.6	Special knife with waved cutting edge (only for 2 inch beam clearance)	<b>5004818</b>	1	194.00

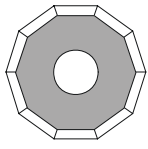
### 1.2.3 ZÜND flat knives 1.5mm thick for POT-40/1.5 (for soft materials up to 50mm) (cont.)

Illustration	Type (Mat)	Angle $\alpha/\beta$	Tool insert	Description	Part #	Pack. Unit	Price per pcs
				Knife reduction 1.5/0.6mm for POT-40/1.5; allows use of standard knives with 0.6mm thickness (Z20,Z41,etc.)	<b>5003138</b>	1	123.00
	<b>Z71</b>	45	V-cut	V-cut blade for X board up to 16mm	<b>5006045</b>	1	98.00
	<b>Z73</b>		V-cut	HSS for V-cut tool	<b>5005572</b>	5	3.22

### 1.2.4 ZÜND passepartout knives




Illustration	Type (Mat)	Angle $\alpha/\beta$	Tool insert	Description	Part #	Pack. Unit	Price per pcs
	<b>Z30<sup>X)</sup></b> (HM)	15/40°	PPT-32	For passepartout up to 2 mm	<b>3910330</b>	5	26.95
	<b>Z31</b> (HM)	35/30°	PPT-32	For passepartout up to 3 mm	<b>3910331</b>	5	31.53
	<b>Z33</b> (HM)	26/38°	PPT-40	For passepartout up to 5 mm	<b>3910333</b>	2	27.67
	<b>Z34</b> (HM)	20/90°	PPT-40	for passepartout up to 5 mm, also suited for smaller radius	<b>3910334</b>	2	55.00
	<b>Z35</b> (HM)	15/38°	PPT-40	Sword knife for passepartout up to 5mm (requires knife holder 3960330)	<b>4800071</b>	2	79.00

### 1.2.5 ZÜND wheel knives for DRT



Illustration	Type (Mat)	Diameter	Tool insert	Description	Part #	Pack. Unit	Price per pcs
	<b>Z50<sup>X)</sup></b> (HM)	Ø 25mm	DRT	Decagonal knife for textiles	<b>3910335</b>	1	92.00
	<b>Z51<sup>X)</sup></b> (HM)	Ø 28mm	DRT	Decagonal knife for textiles	<b>3910336</b>	1	100.00
	<b>Z52<sup>X)</sup></b> (HM)	Ø 32mm	DRT	Decagonal knife for textiles	<b>3910337</b>	1	115.00

## 2. Routers




### 2.1 Standard routers shaft Ø 1/8" (3.175mm)

Illustration	Cutting edges	Type	Ø [mm]	Depth of cut [mm]	Description	Part #	Pack. Unit	Price per pcs
	1	Type 15	0.6	2.0	Universal router for plastic	3910715	1	30.75
		Type 16	1.0	4.0		3910716	1	30.75
		Type 17	1.2	4.0		3910717	1	30.75
		Type 11	1.6	4.0		3910711	1	30.75
		Type 12	2.0	5.0		3910712	1	30.75
		Type 13	2.4	6.0		3910713	1	30.75
		Type 14	3.0	8.0		3910714	1	55.25
	2	Type 25	0.6	2.0	Universal router for thin aluminium and plastics	3910705	1	18.40
		Type 26	0.8	3.0		3910706	1	18.40
		Type 27	1.0	4.0		3910707	1	18.40
		Type 28	1.2	4.0		3910708	1	18.40
		Type 21	1.6	4.0		3910701	1	12.23
		Type 22	2.0	5.0		3910702	1	12.23
		Type 23	2.4	6.0		3910703	1	12.23
		Type 24	3.0	8.0		3910704	1	12.23
	2	Type 62	2.4	8.0	Special router with diamond pattern, for hard wood and hard plastics	3910452	1	34.50

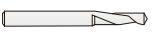

### 2.2 Routers shaft Ø 3.0mm

Illustration	Cutting edges	Type	Ø [mm]	Depth of cut [mm]	Description	Part #	Pack. Unit	Price per pcs
	3	Type 34	1.0	4.0	Router for very hard materials, like hard brass	3910424	1	39.75
		Type 31	1.5	4.0		3910421	1	39.75
		Type 32	2.0	4.0		3910422	1	39.75
		Type 35	2.5	6.0		3910425	1	39.75
		Type 33	3.0	8.0		3910423	1	39.75
	1	Type 41	2.0	3.0	Router for hard aluminum	3910431	1	69.75
		Type 42	2.5	3.0		3910432	1	69.75
		Type 43	3.0	3.0		3910433	1	69.75

### 2.2 Routers shaft Ø 3.0mm (cont.)

Illustration	Cutting edges	Type	Ø [mm]	Depth of cut [mm]	Description	Part #	Pack. Unit	Price per pcs
	1	Type W1S	2.2	1.0	Router for hard cardboard (helical-fluted)	1560210	1	51.48
		Type W2S	2.2	1.5		1560211	1	51.48
		Type W3S	2.2	2.0		1560212	1	51.48
	1	Type W3	2.2	1.0	Router for hard cardboard (shoe manufacturing)	1457153	1	41.18
		Type W2	2.2	1.5		1457152	1	41.18
		Type W1	2.2	2.0		1457151	1	41.18
	1	Type W5	2.0	2.0	Left-hand twist	1555666	1	41.18

### 2.3 Routers shaft Ø 4.0mm

Illustration	Cutting edges	Type	Ø [mm]	Depth of cut [mm]	Description	Part #	Pack. Unit	Price per pcs
	1	Type 51	4.0	18.0	Universal router for plastics	3910441	1	66.95
	2	Type 61	4.0	18.0	Universal router for plastics	3910451	1	105.95

### Upcut vs Downcut

Upcut bits are normally preferred for cleaner operation as the bit draws the material up to the surface to be vacuumed away, however if the media splinters and/or the printed/laminated surface lifts away when using one then switching to a downcut bit should give a cleaner finish.

### 2.4 Routers shaft Ø 1/4 inch or 1/8 inch



Illustration	Cutting edges	Type	Ø [in]	Depth of cut [in]	Description	Part #	Pack. Unit	Price per pcs
	2	upcut	1/4	3/4	Universal bit for sintra, styrene,dibond, acrylic	ons52624	1	27.95
	1	downcut	1/4	3/4	Universal bit for sintra, styrene,dibond, acrylic	ons62775	1	31.53
	1	upcut	1/4	3/4	Acrylic	ons63725	1	31.53
	2	downcut	1/4	7/8	Gator	ons57910	1	24.52
	1	downcut	1/4	1/2	1/8 cut, wood, wood composites	ons64012	1	42.15
	1	upcut	1/4	1/4	1/8 cut, MDF, wood, some plastics	ons65010	1	39.96

**2.4 Routers shaft Ø 1/4 inch or 1/8 inch (cont.)**

Illustration	Cutting edges	Type	Ø [in]	Depth of cut [in]	Description	Part #	Pack. Unit	Price per pcs
	1	upcut	1/4	1/2	1/8 cut, polycarb, PE	ons63762	1	31.53
	2	upcut	1/4	1/2	Universal bit for dibond	IMC31415	1	17.12
	1	upcut	1/8	1/2	Universal bit for wood, wood composites, some plastics	ons65013	1	37.97
	1	upcut	1/8	1/4	Universal bit for sintra, styrene,dibond, acrylic	ons63711	1	29.34
	2	upcut	1/8	1/2	Universal bit for gatorboard, some PVC	ons52703	1	46.46
	2	downcut	1/4	3/4	Universal bit for sintra, styrene,dibond, acrylic	ons57625	1	27.95
	2	upcut	1/4	1.0	Universal bit for wood, wood composites, some plastics	ons52285	1	29.60
	2	upcut	1/4	1 1/4	Universal bit for sintra, styrene,dibond, acrylic	ons52700	1	54.00
	2	upcut	1/8	1/2	Universal bit for wood, wood composites, some plastics	ons52244	1	27.80
	2	downcut	1/8	1/2	Universal bit for wood, wood composites, some plastics	ons57244	1	27.80
	1	upcut	1/8	1/4	Universal bit for sintra, styrene,dibond, acrylic	ons63701	1	27.95
	1	downcut	1/8	1/4	Universal bit for sintra, styrene,dibond, acrylic	ons62602	1	31.25
	1	upcut	1/8	1/2	Universal bit for sintra, styrene,dibond, acrylic	ons63713	1	27.95
	1	downcut	1/8	1/4	Universal bit for sintra, styrene,dibond, acrylic	ons62713	1	27.95
	2	upcut	1/4	3/8	Universal bit for dibond	ons66315	1	39.50
	2	upcut	1/4	1.0	Universal bit for wood, wood composites, some plastics	ons52285	1	29.75
	2	upcut	1/4	5/8	General all purpose bit	ons65023	1	49.75
	1	Ø	1/4	1/2	Coroplast	ons61041	1	29.75
	1	Ø	1/4	3/8	Coroplast	ons61042	1	32.95
	2	upcut	1/4	3/8	Aluminum	ons81204	1	45.95
	2	upcut	1/4	1/2	Gator and some PVC's, 1/8th cut end diameter	ons57040	1	29.75
	2	downcut	1/4	1 1/8	Wood and MDF	ons57287	1	32.95
	2	downcut	1/4	3/8	General plastic and PVC	ons57623	1	26.95

Illustration	Cutting edges	Type	Ø [in]	Depth of cut [in]	Description	Part #	Pack. Unit	Price per pcs
	3	upcut	1/4	7/8	Masonite	ons60241	1	46.95
	1	downcut	1/4	1/2	General plastic and PVC. 1/8 cut end diameter	ons62712	1	30.95
	1	upcut	1/4	5/8	Aluminum. 3/16 cut end diameter	ons63618	1	42.95
	1	upcut	1/4	1/2	General all purpose bit. 1/8 cut end diameter	ons63712	1	30.95
	1	upcut	1/8	1/2	Coroplast	ons61044	1	29.25
	1	downcut	1/8	1/2	General plastic and PVC	ons62763	1	27.95
	1	upcut	1/8	1/4	Aluminum	ons63604	1	32.95
	1	upcut	1/8	1/4	General plastic and PVC	ons63761	1	28.95
	1	upcut	1/8	1/2	General plastic and PVC	ons63763	1	27.95
	2	upcut	1/4	1 1/4	Universal bit for gatorboard, some PVC	imc2140	1	41.95
	2	upcut	1/4	1 1/4	Universal bit for gatorboard, some PVC	imc2141	1	46.95
	2	upcut	1/4	2.0	Universal bit for gatorboard, some PVC	imc2142	1	58.95
	2	upcut	1/4	3/4	Universal bit for sintra, styrene, dibond, acrylic	imc2143	1	36.95
	2	downcut	1/4	3/4	Universal bit for sintra, styrene, dibond, acrylic	imc2144	1	44.95
	2	upcut	1/8	3/8	Universal bit for gatorboard, some PVC	imc2180	1	24.25

**2.5 Engraving bits shaft Ø 1/8" (3.175mm)**

Illustration	Cutting edges	Type	Angle	Description	Part #	Pack. Unit	Price per pcs
	1	Type 4	90°	For acrylic, plastics	3910504	1	29.95
	1	Type 5	60°	For acrylic	3910505	1	29.95

## 2.6 Engraving bits shaft Ø 3.0mm





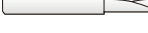
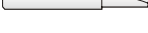


Illustration	Cutting edges	Type	Angle	Description	Part #	Pack. Unit	Price per pcs
	1	Type 1	90	For acrylic	3910501	1	35.95
	1	Type 2	90	For brass	3910502	1	35.95
	1	Type 3	36	For engraving sheets	3910503	1	35.95






Illustration	Cutting edges	Dia. Ø [mm]	Depth of cut [mm]	Description	Part #	Pack. Unit	Price per pcs
	1	4.0	14.0	Router for hard plastics	3910764	1	50.50
	1	5.0	16.0	Router for hard plastics	3910765	1	47.95
	1	6.0	22.0	Router for hard plastics	3910766	1	47.95

## V-cut bits

Illustration	Cutting edges	Shank	Depth	Description	Part #	Pack. Unit	Price per pcs
	1	.25	.125	V-cut bottom for composites and plastics	ons3751	1	44.34
	1	6mm	.25	V-cut bit for Diebond and Gator	3910760	1	189.00

## 3. Accessories

### 3.1 Accessories for C2, C2-P tool heads

Illustration	Description	Part #	Pack. Unit	Price per pcs
	Knife changing tool, type Zünd (for knife types Z1 - Z5)	3910130	1	21.25
	Knife changing tool, for Wild foil knives (for knife types W1 - W9)	1477996	1	15.95
	Penholder C2 module	3120013	1	185.00
	Knife holder for C2, C2-P tool heads	3120011	1	469.00
	Knife holder C2, C2-P tool head <b>with gliding disc</b> , recommended for "Diamond Grade" foil	3120012	1	995.00

### 3.2 Accessories for Tz-xx tool heads

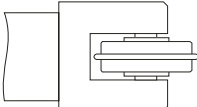
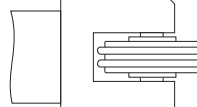
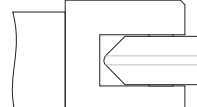
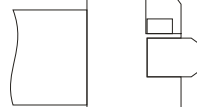

Illustration	Description	Part #	Pack. Unit	Price per pcs
	Knife holder type 1 (silver) for centric knives 1.5mm thick (Z12, Z13, ...)	3960322	1	195.00
	Knife holder type 2 (blue) for centric knives 0.6mm thick (Zünd Type 2, Zünd Type 3, ...)	3960323	1	195.00
	Knife holder type 3 (yellow) for eccentric knives 0.6mm thick (z.Bsp. Z16, Z17, ...)	3960324	1	195.00
	Knife holder type 5 for centric knives 1.5mm thick (Z46)	3960320	1	285.00
	Insert sleeve 40 for Tz-module cpl. with gliding disc (without knife holder)	3150061	1	975.00
	Gliding disc fix with large slot for insert sleeve 40 (for cutting in relative mode)	3120029	1	229.00
	Insert sleeve 40 for Tz-module <b>without gliding disc</b> for taking up creasing tools	3120049	1	749.00
	Insert sleeve 40 for vinyl cutting with Tz-module cpl (cutting force adjustable with spring)	3102202	1	1,975.00
	Insert sleeve 28 for 2T-module, without gliding disc (for tool head Tz-2T-P)	3120098	1	601.20
	Gliding disc fix for insert sleeve 28 (for cutting in relative mode)	5002146	1	157.82
	Knife holder type 1 (silver) for insert sleeve 28 for 2T-module (Z12, Z13, ...)	5002251	1	315.63
	Knife holder type 2 (blue) for insert sleeve 28 for 2T-module (Zünd Type 2, Zünd Type 3, ...)	5002252	1	315.63
	Knife holder type 3 (yellow) for insert sleeve 28 for 2T-module (Z16, Z17, ...)	5002253	1	315.63

### 3.3 Plotting accessories

Illustration	Description	Part #	Pack. Unit	Price per pcs
	Insert sleeve for ball point cartridge	3910200	1	190.00
	Ballpoint cartridge black	3910201	5	10.75
	Ballpoint cartridge blue	3910202	5	10.75
	Ballpoint cartridge green	3910203	5	8.27
	Ballpoint cartridge red	3910204	5	8.27
	Insert sleeve for long life cartridge (Super Giant)	3910223	1	195.00

Illustration	Description	Part #	Pack. Unit	Price per pcs	
	Long life cartridge black (Super Giant)	<b>3910224</b>	1	39.00	
	Insert sleeve for silver cartridge	<b>3910222</b>	1	145.00	
	Ballpoint silver cartridge	<b>3910205</b>	1	3.76	
	Insert sleeve for pencil	<b>1384482</b>	1	449.00	
	Insert sleeve for edding 400/404 (permanent marker)	<b>3205430</b>	1	399.00	
	Insert sleeve for Pentel K108 (Gel Roller)	<b>3205431</b>	1	549.00	
	Insert sleeve for ink cartridge (precision drawings)	<b>1522729</b>	1	1,195.00	
    	For precision drawings on film	Ink pen 0.18mm	<b>3912223</b>	1	259.00
		Ink pen 0.25mm	<b>3912224</b>	1	259.00
		Ink pen 0.35mm	<b>3912225</b>	1	165.00
		Socket for film pen	<b>3912216</b>	1	41.95
		Ink black for film (22ml)	<b>3912215</b>	1	39.95
	Ink pen 0.25mm	<b>3912222</b>	1	199.00	
	Ink pen 0.35mm	<b>3912219</b>	1	189.00	
	Ink pen 0.50mm	<b>3912220</b>	1	189.00	
	Ink pen 0.70mm	<b>3912221</b>	1	189.00	


**3.4 Creasing tools**

Illustration	Description	Part #	Pack. Unit	Price per pcs	
	Folding carton	Creasing wheel Ø 24mm with holder, creasing width/-depth 1.5/1.0mm	<b>3910603</b>	1	315.00
		Creasing wheel Ø 24mm with holder, creasing width/-depth 1.5/1.5mm	<b>3910604</b>	1	315.00
		Creasing wheel Ø 15mm with holder, creasing width/-depth 0.7/1.0mm	<b>5002277</b>	1	315.00
		Creasing wheel Ø 15mm with holder, creasing width/-depth 1.1/1.5mm	<b>5002275</b>	1	315.00
		Creasing wheel Ø 24mm with holder, creasing width/-depth 0.7/0.7mm	<b>3910601</b>	1	315.00
		Creasing wheel Ø 24mm mit holder, creasing width/-depth 1.1/1.1mm	<b>3910602</b>	1	315.00
		Double-creasing wheel Ø 24mm with holder, creasing depth 0.7mm	<b>3910611</b>	1	315.00
		Double-creasing wheel Ø 24mm with holder, creasing depth 1.1mm	<b>3910612</b>	1	315.00
	Corrugated carton	Creasing wheel Ø 24mm with holder, <b>type V - R1.5</b>	<b>5003245</b>	1	369.00
		Creasing wheel Ø 24mm with holder, <b>type V - R3</b>	<b>5003246</b>	1	369.00
		Creasing wheel Ø 24mm with holder, <b>type V - R7</b>	<b>5003247</b>	1	369.00
		Creasing shoe with holder	<b>3910607</b>	1	315.00
	Polypropylen	Creasing tool <b>1.5mm</b> for polypropylene (requires knife holder type 1)	<b>5002539</b>	1	190.00
		Creasing tool <b>1.0mm</b> for polypropylene (requires knife holder type 1)	<b>5002540</b>	1	190.00
		Creasing tool <b>0.5mm</b> for polypropylene (requires knife holder type 1)	<b>5002541</b>	1	190.00

### 3.5 Accessories for punch and notch tool head


#### 3.5.1 Punching tool HSS (high speed steel)

High-alloy high-speed-steel for leather with minimally fibrous undersides and for imitation leather

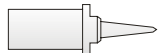
Illustration	Hole Ø [mm]	Ø tool reception [mm]	Part #	Pack. Unit	Price per pcs
	0.5	7.0	3999211	1	113.00
	1.0		3999201	1	76.00
	1.2		3999200	1	85.00
	1.5		3999202	1	76.00
	2.0		3999203	1	68.00
	2.5		3999204	1	62.00
	3.0		3999205	1	62.00
	3.5		3999206	1	79.00
	4.0		3999207	1	57.00
	4.5		3999208	1	65.00
	5.0		3999209	1	65.00
	5.5		3999210	1	76.00

#### 3.5.2 Punching tool HM (hard metal)

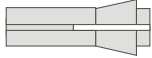
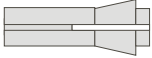


Carbide suited for leather with very fibrous („hairy“) undersides

Illustration	Hole Ø [mm]	Ø tool reception [mm]	Part #	Pack. Unit	Price per pcs
	1.0	4.5	3999101	1	165.00
	1.5		3999102	1	165.00
	2.0		3999103	1	145.00
	2.5		3999104	1	145.00
	3.0	7.0	3999105	1	150.00
	3.5		3999106	1	208.00
	4.0		3999107	1	144.00
	4.5		3999108	1	165.00
	5.0		3999109	1	165.00

#### 3.5.3 Punching pin

Illustration	Description	Ø tool reception [mm]	Part #	Pack. Unit	Price per pcs
	Punching pin	4.5	3999111	1	28.56
	Punching pin	7.0	3999112	1	28.56

**3.6 Routing accessories**

Illustration	Description	Part #	Pack. Unit	Price per pcs	
	Collet for milling spindle	Ø 1/8" (3.175mm)	<b>3910492</b>	1	237.00
		Ø 2.0mm	<b>3910494</b>	1	250.00
		Ø 3.0mm	<b>3910491</b>	1	250.00
		Ø 4.0mm	<b>3910493</b>	1	250.00
	Collet for 1kW router spindle	Ø 1/4 in.	<b>3910497</b>	1	315.00
		Ø 1/8 in.	<b>3910500</b>	1	299.00
		Ø 6.0mm	<b>3910496</b>	1	344.00
		Ø 4.0mm	<b>3910499</b>	1	295.00
		Ø 3.0mm	<b>3910498</b>	1	295.00
	Brush for 150/450 Routers	<b>3621213</b>	1	48.10	
	Brush for 1kW Router	<b>5005271</b>	1	44.75	